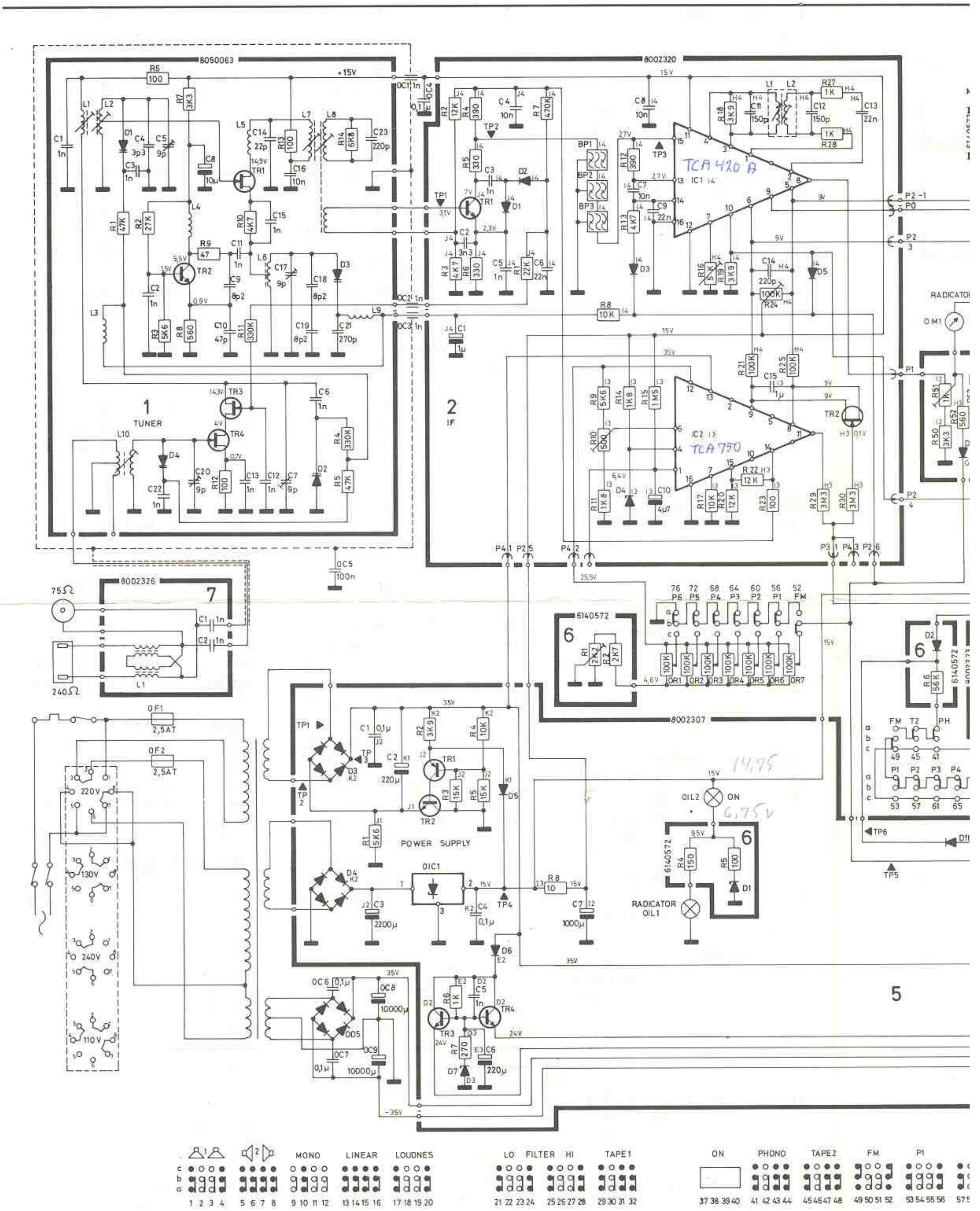
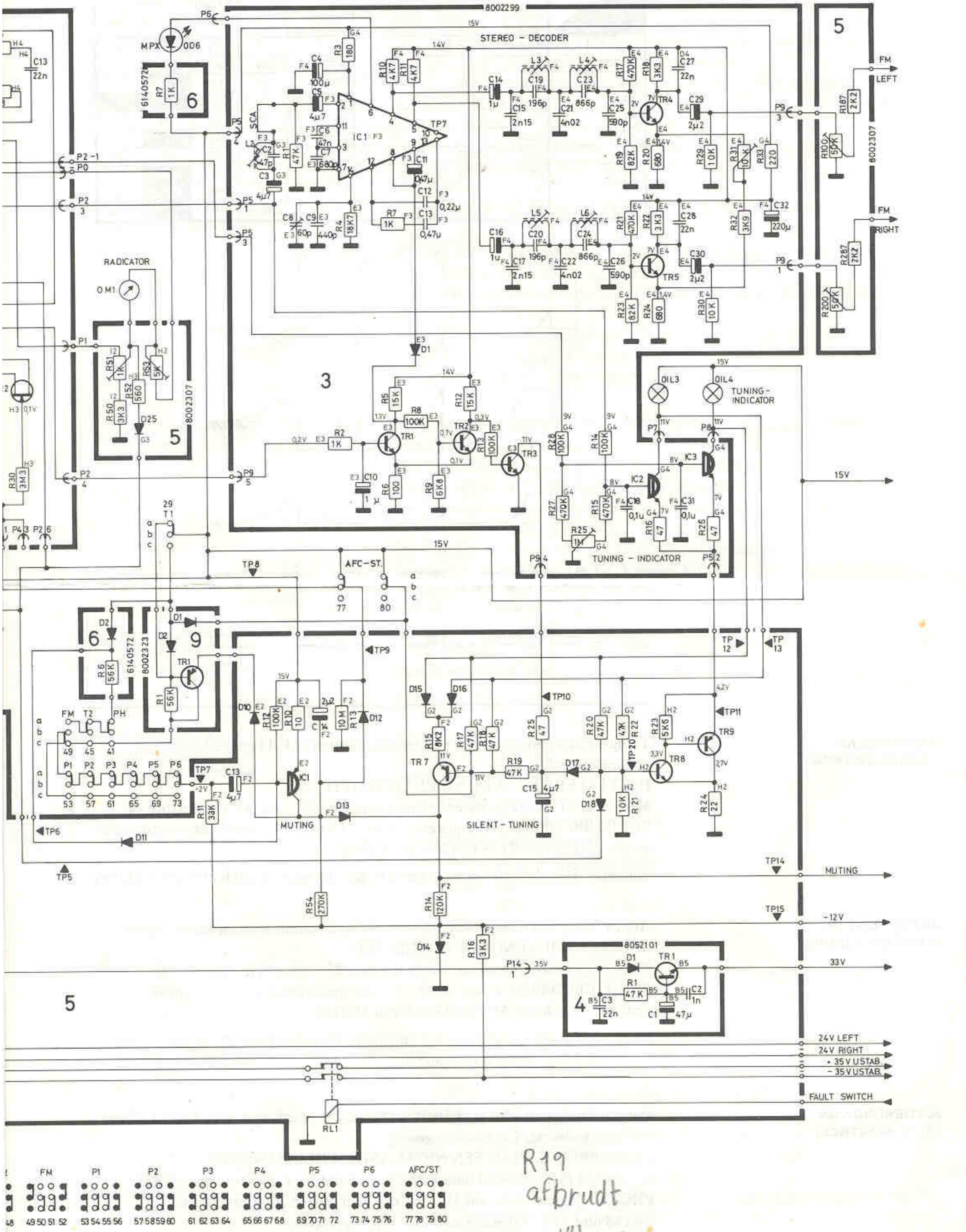


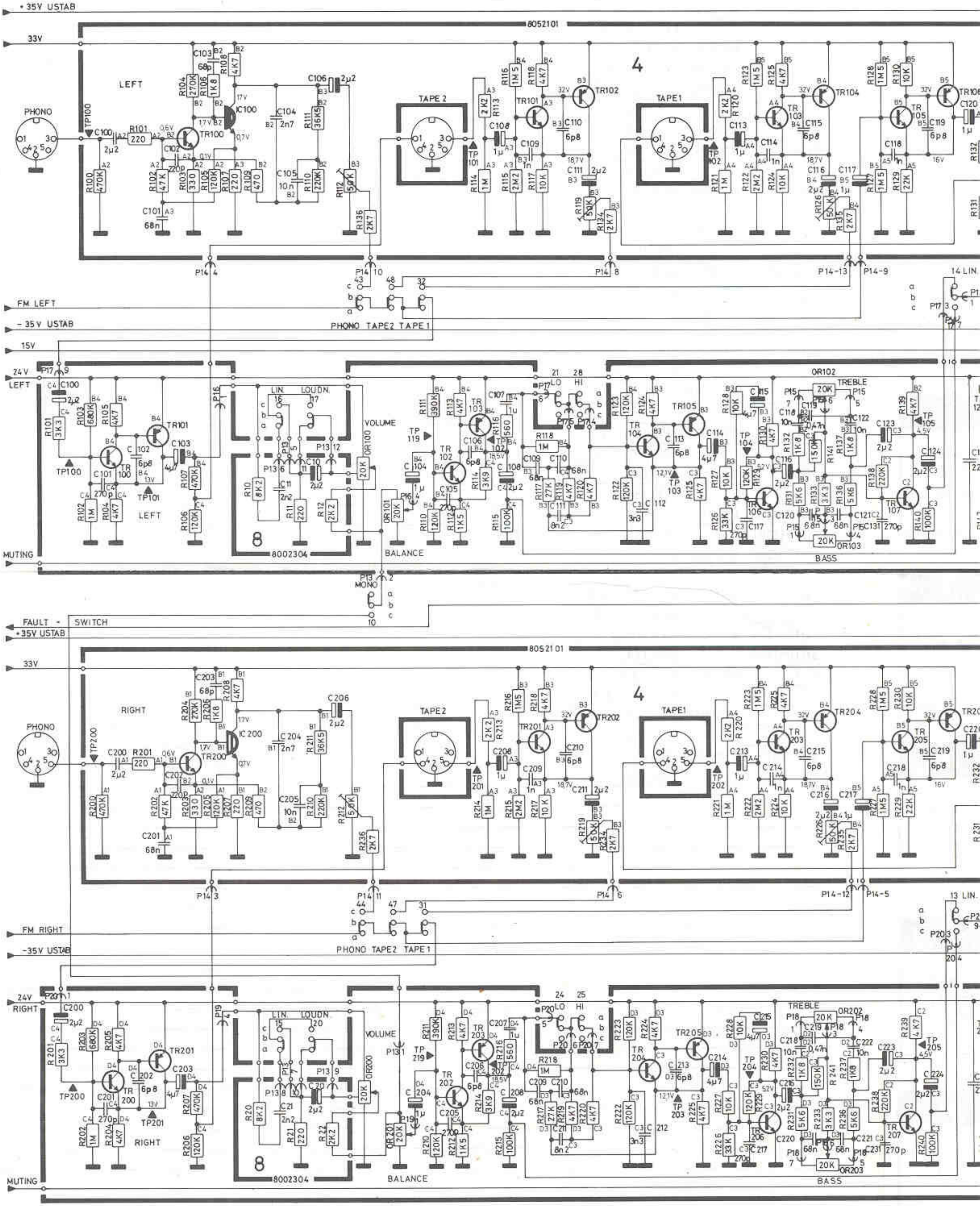
8050063
1
TUNER
+15V
8002320
2
IF
TCA 420 A
IC1
TCA 750
IC2
BP1
BP2
BP3
TP1
TP2
TP3
RADICATOR
OM1
8002326
7
75Ω
240Ω
L1
6140572
6
R1 2K2
R2 2K7
76 72 68 64 60 56 52
P6 P5 P4 P3 P2 P1 FM
OR1 OR2 OR3 OR4 OR5 OR6 OR7
8002307
POWER SUPPLY
0IC1
0F1 2,5AT
0F2 2,5AT
220V
130V
240V
110V
14,75
6,75 V
0IL2
ON
RADICATOR OIL1
5
TP4
TP5
TP6
35V
-35V
24V
15V
FM T2 PH
P1 P2 P3 P4
49 45 41
53 57 61 65
MONO
LINEAR
LOUDNES
LO FILTER HI
TAPE 1
ON
PHONO
TAPE 2
FM
P1
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
17 18 19 20
21 22 23 24
25 26 27 28
29 30 31 32
37 38 39 40
41 42 43 44
45 46 47 48
49 50 51 52
53 54 55 56

Bang&Olufsen

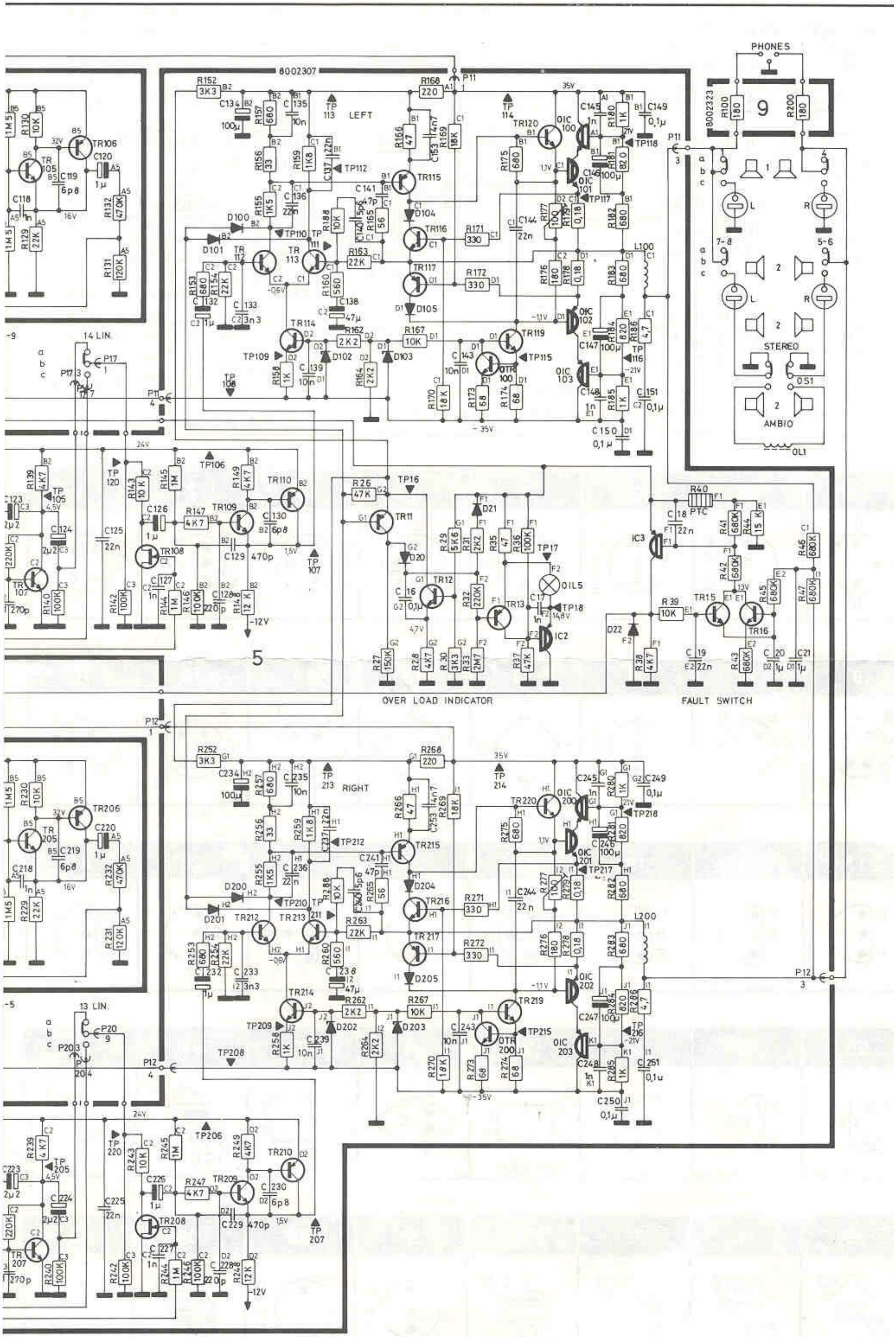

8002299
STEREO - DECODER
5
FM LEFT
FM RIGHT
8002307
MPX OD6
6140572
6
IC1
TP7
TR4
TR5
RADICATOR
OM1
D25
5
3
TR1
TR2
TR3
D1
OIL3
OIL4
TUNING-INDICATOR
IC2
IC3
TUNING - INDICATOR
15V
AFC-ST.
TP8
TP9
6
9
8002323
MUTING
IC1
TP6
TP5
D11
D15
D16
TR7
TP10
SILENT - TUNING
D17
D18
TR8
TR9
TP11
TP12
TP13
TP14
MUTING
TP15
-12V
8052101
4
33V
5
24V LEFT
24V RIGHT
+ 35V USTAB.
- 35V USTAB.
FAULT SWITCH
RL1
FM
P1
P2
P3
P4
P5
P6
AFC/ST
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

R19
afbrudt

Bang & Olufsen



+35V USTAB
33V
8052101
LEFT
PHONO
TP100
C100
2μ2
R101
220
R100
470K
TR100
IC100
C103
68p
R104
270K
R106
1K8
R108
4K7
C104
2n7
C106
2μ2
R111
36K5
C105
10n
R110
220K
R112
50K
R136
2K7
C101
68n
TAPE 2
TP 101
TR101
TR102
R116
1M5
R118
4K7
C108
1μ
C109
1n
C110
6p8
C111
2μ2
R119
50K
R134
2K7
4
TAPE1
TP 102
TR 103
TR104
C113
1μ
C115
6p8
C116
2μ2
R126
50K
R135
2K7
TR 105
TR106
C119
6p8
C120
P14 4
P14 10
P14 8
P14-13
P14-9
14 LIN.
43
48
32
FM LEFT
-35V USTAB
PHONO TAPE2 TAPE1
15V
24V
LEFT
P17
P16
TR101
TR100
TP100
TP101
LIN.
LOUDN.
VOLUME
OR100
OR101
BALANCE
8002304
8
TP 119
TR 102
TR 103
P17 LO
HI
21
28
R118
1M
TR 104
TR105
TP 103
TP 104
OR102
TREBLE
20K
TR 106
TR 107
TP 105
BASS
OR103
MUTING
P13 MONO
FAULT - SWITCH
10
+35V USTAB
33V
80521 01
RIGHT
PHONO
TP200
C200
R201
220
R200
470K
TR200
IC 200
C203
68p
R204
270K
R205
1K8
R208
4K7
C 204
2n7
C206
2μ2
R211
36K5
C205
10n
R210
220K
R212
50K
R236
2K7
C201
68n
TAPE2
TP 201
TR201
TR202
4
TAPE1
TP 202
TR 203
TR204
TR 205
P14 3
P14 11
P14 6
P14-12
P14-5
13 LIN.
44
47
31
FM RIGHT
-35V USTAB
PHONO TAPE2 TAPE1
24V
RIGHT
P20
P19
TR201
TR 200
TP200
TP201
RIGHT
LIN.
LOUDN.
VOLUME
OR200
OR201
BALANCE
8002304
8
TP 219
TR 202
TR 203
P20 LO
HI
24
25
R218
1M
TR 204
TR205
TP 203
TP 204
TREBLE
OR202
20K
TR 206
TR 207
TP 205
BASS
OR203
MUTING


8002307
LEFT
RIGHT
PHONES
9
8002323
STEREO
AMBIO
OVER LOAD INDICATOR
FAULT SWITCH
5
14 LIN.
13 LIN.
P11
P12
P17
P20
TR105
TR106
TR107
TR108
TR109
TR110
TR112
TR113
TR114
TR115
TR116
TR117
TR119
TR120
OIC 100
OIC 101
OIC 102
OIC 103
OTR 100
TR11
TR12
TR13
TR15
TR16
IC2
IC3
OIL5
R40 PTC
TR205
TR206
TR207
TR208
TR209
TR210
TR212
TR213
TR214
TR215
TR216
TR217
TR219
TR220
OIC 200
OIC 201
OIC 202
OIC 203
OTR 200
L100
L200
OS1
OL1
35V
-35V
24V
-12V
32V
16V
-21V
21V

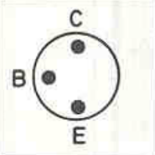
TRANSISTOR AND IC LIST

0TR100/200	8320383	**32**	ON 595
		32	BO 135
		32	BD 165 S
0IC1	8340064	**105**	LM 340T-15V
		105	7815 CU
		105	PA 7815 C
0IC100/200	8340042	**39**	TIP 141
0IC101/201			
0IC102/202	8340041	**39**	TIP 146
0IC103/203			
1TR1	8320136	**21**	TIS 88
		21	3 C 2
		4	U 1981 E
		21	2N 5245
		22	3C2P
		21	SPF 2060
1TR2	8320112	**23**	BF 495
		23	BF 255
1TR3	8320119	**21**	TIS 88 A
1TR4		**21**	2N 5245
		4	U 1981 E
		21	SPF 2038
2TR1	8320311	**23**	BF 240
2TR2	8320289	**24**	2N 5458
2IC2	8340033		TCA 420 A
2IC2	8340090		TCA 750
3TR1	8320097	**18**	BC 547 B
3TR2		**18**	BC 237 B
3TR3		**18**	BC 171 B
		18	BC 182 B
		17	BC 182 BL
3TR4	8320285	**18**	BC 183 C
3TR5		**17**	BC 183 CL
		18	BC 548 C
3IC1	8340103		MC 1310
			MC 1310 N
			CA 1310 E
3IC2	8340043	**19**	MPSA 13
3IC3			
4TR1	8320092	**18**	BC 547 B
		18	BC 182 B
		17	BC 182 BL
4TR	*8320344	**18**	BC 550 B
100/200		**18**	BC 384 BN
4TR	*8320095	**18**	BC 549 B
101/201		**18**	BC 184 BN
4TR102/202	8320069	**18**	BC 559 B
		18	BC 214 B
		17	BC 214 BL
4TR	*8320095	**18**	BC 549 B
103/203		**18**	BC 184 BN
4TR104/204	8320069	**18**	BC 559 B
		18	BC 214 B
		17	BC 214 BL
4TR	*8320095	**18**	BC 549 B
105/205		**18**	BC 184 BN
4TR106/206	8320069	**18**	BC 559 B
		18	BC 214 B
		17	BC 214 BL
4IC100/200	8340054	**19**	MPSA 13
		19	TPSA 13
5TR1	8320242	**18**	BC 556 B
5TR2	8320148	**10**	BC 142
5TR3	8320092	**18**	BC 547 B
5TR4		**18**	BC 182 B
		17	BC 182 BL
5TR7	8320152	**18**	BC 212 B
		17	BC 212 BL
		18	BC 557 B
		18	BC 251 B
		18	BC 307 B
5TR8	8320108	**18**	BC 172 B
		18	BC 238 B
		18	BC 548 B
		18	BC 183 B
		17	BC 183 BL
5TR9	8320316	**18**	BC 327 – 25
5TR11	8320152	**18**	BC 212 B
		17	BC 212 BL
		18	BC 557 B
		18	BC 251 B
		18	BC 307 B
5TR12	8320097	**18**	BC 547 B
		18	BC 237 B
		18	BC 171 B
		18	BC 182 B
		17	BC 182 BL
5TR13	8320104	**18**	BC 558 B
		18	BC 308 B
		18	BC 213 B
		17	BC 213 BL
		18	BC 252 B
5TR15	8320108	**18**	BC 172 B
5TR16		**18**	BC 238 B
		18	BC 548 B
		18	BC 183 B
		17	BC 183 BL
5TR	*8320095	**18**	BC 549 B
100/200		**18**	BC 184 BN
5TR101/201	8320069	**18**	BC 559 B
		18	BC 214 B
		17	BC 214 BL
5TR	*8320095	**18**	BC 549 B
102/202		**18**	BC 184 BN
5TR103/203	8320069	**18**	BC 559 B
		18	BC 214 B
		17	BC 214 BL
5TR	*8320095	**18**	BC 549 B
104/204		**18**	BC 184 BN
5TR105/205	8320069	**18**	BC 559 B
		18	BC 214 B
		17	BC 214 BL

5TR			
106/206	*8320344	**18**	BC 550 B
5TR107/207		**18**	BC 384 BN
5TR108/208	8320289	**24**	2N 5458
5TR	*8320095	**18**	BC 549 B
109/209		**18**	BC 184 BN
5TR110/210	8320069	**18**	BC 559 B
		18	BC 214 B
		17	BC 214 BL
5TR	*8320382	**18**	BC 547 C
112/212		**18**	BC 182 B
5TR113/213		**17**	BC 182 BL
		18	BC 237 C
5TR114/214	8320097	**18**	BC 547 B
		18	BC 237 B
		18	BC 171 B
		18	BC 182 B
		17	BC 182 BL
5TR115/215	8320365	**19**	MPSH 54
5TR116/216	8320108	**18**	BC 172 B
		18	BC 238 B
		18	BC 548 B
		18	BC 183 B
		17	BC 183 BL
5TR117/217	8320104	**18**	BC 558 B
		18	BC 308 B
		18	BC 213 B
		17	BC 213 BL
		18	BC 252 B
5TR119/219	8320321	**19**	MPSA 06
5TR120/220			
5IC1	8340025	**18**	BC 516
5IC2		**19**	MPSA 65
5IC3		**19**	SPS 5431
9TR1	8320152	**18**	BC 212 B
		17	BC 212 BL
		18	BC 557 B
		18	BC 251 B
		18	BC 307 B

* Specially selected specimen

1



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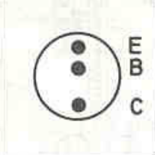

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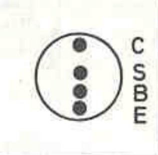

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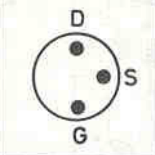

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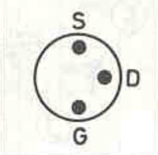

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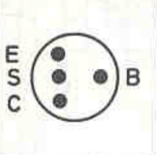

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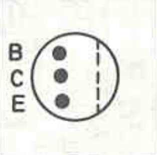

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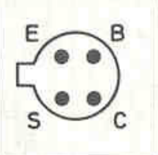

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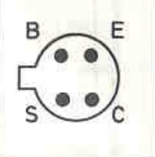

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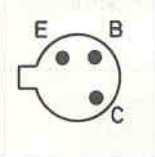

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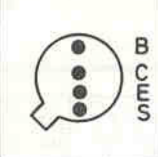

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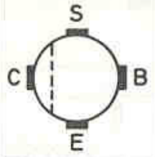

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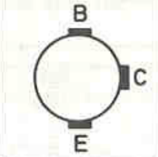

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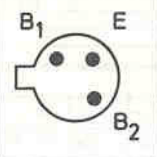

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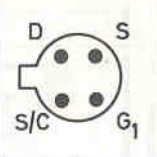

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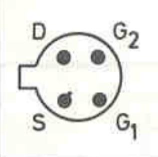

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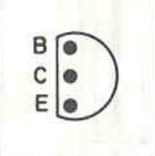

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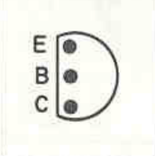

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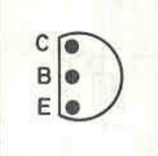

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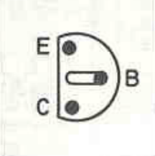

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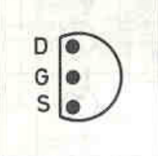

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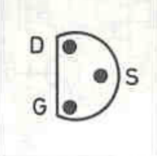

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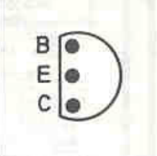

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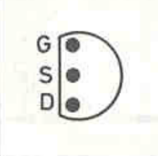

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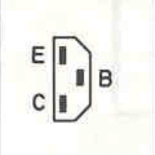

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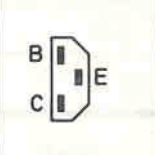

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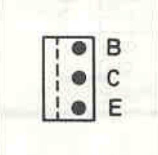

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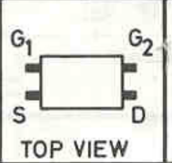
G_1
G_2
S
D
TOP VIEW

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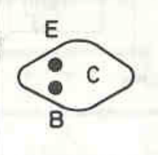

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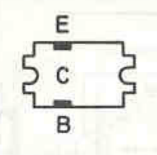

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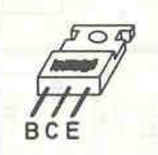

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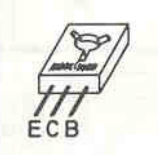

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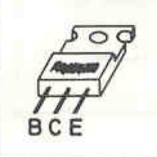

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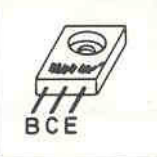

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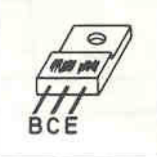

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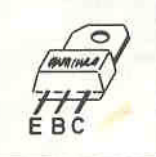

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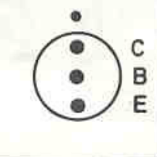

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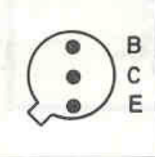

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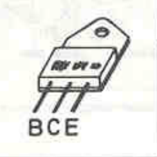

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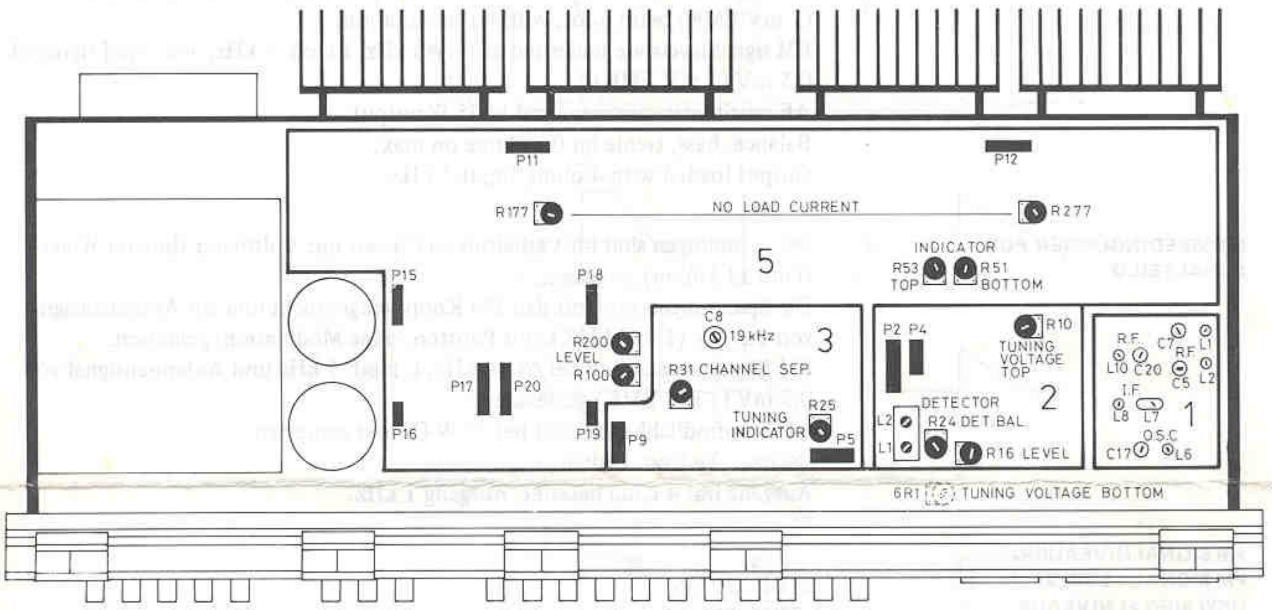
PRINTED IN DENMARK

DIODE LIST

0D5	8310023	B80C5000/3000
0D6	8300195	TIL 209 A
		LED - 5075 B
1D1-1D2	8300041	BB 103 green
1D3-1D4	8300050	BB 103 blue
2D1-2D3	8300058	1N 4148
		SFD 184
2D4	8300283	6,4 V 5 %
2D5	8300058	1N 4148
		SFD 184
3D1	8300058	1N 4148
		SFD 184
4D1	8300058	1N 4148
		SFD 184
5D3-5D4	8300155	B40C800
		B80C800
5D5-5D6	8300058	1N 4148
		SFD 184
5D7	8300033	ZPD 22 V - 5 %
		BZX 79 - 22 V
5D10-5D13	8300058	1N 4148
		SFD 184
5D14	8300029	ZPD 12 V - 5 %
		BZX 79 - 12 V
5D15-5D25	8300058	1N 4148
		SFD 184
5D100/200	8300212	1N 4448
5D101/201		1N 916 B
5D102/202	8300222	ZPD 2,7 V - 5 %
		BZX 83 - 2,7 V
5D103/203	8300029	ZPD 12 V - 5 %
		BZX 79 - 12 V
5D104/204	8300058	1N 4148
5D105/205		SFD 184
6D1	8300128	ZPD 5,6 V - 5 %
		BZX 79 - 5,6 V
6D2	8300058	1N 4148
		SFD 184
9D1-9D2	8300058	1N 4148
		SFD 184


P11
P12
R177
NO LOAD CURRENT
R277
5
INDICATOR
R53
TOP
R51
BOTTOM
P15
P18
C8
19 kHz
3
R200
LEVEL
R100
R31 CHANNEL SEP.
P17
P20
P16
P19
P9
TUNING
INDICATOR
R25
P5
P2
P4
R10
TUNING
VOLTAGE
TOP
2
DETECTOR
L2
L1
R24 DET. BAL.
R16 LEVEL
R.F.
C7
L1
R.F.
L10
C20
C5
L2
I.F.
L8
L7
1
O.S.C
C17
L6
6R1
TUNING VOLTAGE BOTTOM

MÅLEBETINGELSER FOR DIAGRAM

DC spændinger er målt i forhold til stel med voltmeter (indre modstand 11 Mohm).
Spændingerne er målt med FM knappen nedtrykket og et antennesignal på 0,5 mV (1 mV EMK), med pilot, uden modulation.
FM signalniveauer er målt ved Δ f 40 kHz, f mod. 1 kHz og antennesignal på 0,5 mV (1 mV EMK).
LF følsomheder er målt ved 75 W output.
Balance, bas, diskant på 0, volume på max.
Udgang belastet med 4 ohm, input 1 kHz.

MEASURING CONDITIONS FOR DIAGRAM

DC voltages are measured in relation to chassis with voltmeter (inner resistance 11 Mohms).
Voltages are measured with FM button depressed and an aerial signal of 0,5 mV (1 mV EMK), with pilot, without modulation.
FM signal levels are measured at Δ f 40 kHz, f mod. 1 kHz, and aerial signal of 0,5 mV (1 mV EMK).
AF sensitivities are measured at 75 W output.
Balance, bass, treble on 0, volume on max.
Output loaded with 4 ohms, input 1 kHz.

MESSBEDINGUNGEN FÜR SCHALTBILD

DC spannungen sind im Verhältnis zu Chassis mit Voltmeter (innerer Widerstand 11 Mohm) gemessen.
Die Spannungen sind mit den FM Knopf eingedrückt und ein Antennensignal von 0,5 mV (1 mV EMK), mit Pilotton, ohne Modulation, gemessen.
FM Signalniveaus sind bei Δf 40 kHz, f. mod. 1 kHz und Antennensignal von 0,5 mV (1 mV EMK) gemessen.
NF Empfindlichkeiten sind bei 75 W Output gemessen.
Balance, Tiefton, Diskant auf 0, Volume auf max.
Ausgang mit 4 Ohm belastet, Ausgang 1 kHz.

FM SIGNALNIVEAUER/ FM SIGNAL LEVELS/ UKW SIGNALNIVEAUS

2TP1	20 mV
2TP2	500 mV
2TP3	50 mV

FØLSOMHEDER/ SENSITIVITIES/ EMPFINDLICHKEITEN

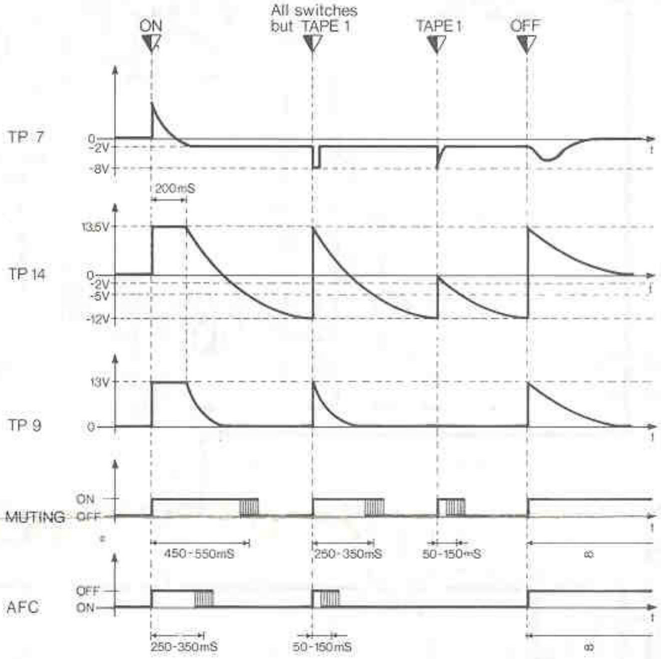
4TP100/200	2,2 mV
4TP101/201	200 mV
4TP102/202	200 mV
5TP100/200	166 mV
	152 mV position linear
5TP119/219	149 mV
	136 mV position linear
5TP102/202	538 mV
	492 mV position linear
5TP103/203	538 mV
5TP104/204	492 mV
5TP105/205	492 mV
5TP120/220	492 mV
5TP107/207	443 mV

TESTPUNKTER/ TESTPOINTS/ TESTPUNKTE

3TP7	19 kHz
5TP109/209	2,0 V DC measured in rel. to –35 V
5TP110/210	–2,0 V DC measured in rel. to 5TP113/213
5TP111/211	0 V ± 50 mV
5TP112/212	–2,0 V DC measured in rel. to 5TP113/213
5TP113/213	–0,7 V DC measured in rel. to 5TP114/214
5TP115/215	0,65 V DC measured in rel. to –35 V
5TP117/217	10 – 15 mV DC measured across both emitter resistors 5R178 and 5R179 (5R278 and 5R279).

TESTPUNKTER/PC 5
TEST POINTS/PC 5
TESTPUNKTE PC 5

Conditions	FM or P1--P6 ON, TAPE1 OFF						TAPE 1	FM & P1-P6
	$V_{ant.} > 10\mu V$				$V_{ant.} < 2.5\mu V$			
	AFC-ST. ON		AFC-ST. OFF		AFC-ST.	AFC-ST.		
	Indicator balance	Indicator max.off bal.	Indicator balance	Indicator max.off bal.	ON	OFF	ON	OFF
INDICATOR	Balance	OFF Bal.	Balance	OFF Bal.	OFF	OFF	■	OFF
MUTING	OFF	ON	OFF	OFF	ON	OFF	OFF	ON
TP6	4.6V	4.6V	4.6V	4.6V	4.6V	4.6V	■	0V
TP9	0V	0V	15V	15V	0V	15V	■	■
TP10	11V	11V	15V	15V	0V	0V	15V	15V
TP20	2.75V	2.75V	2.75V	2.75V	0V	0V	■	0V
TP14	-12V	> 0V	-12V	-12V	>0V	-12V	-12V	-12V
TP11	4.5V	4.5V	4.5V	4.5V	8V	8V	■	8V
TP12	11V	9V/13V	11V	9V/13V	15V	15V	■	15V
TP13	11V	13V/9V	11V	13V/9V	15V	15V	■	15V



JUSTERING AF TOMGANGSSTRØM

Tomgangsstrømmen justeres medens modtageren er kold og med neddrejet volumekontrol.
HØJTTALERE MÅ IKKE VÆRE TILSLUTTET.
Med 5R177 (5R277) justeres indenfor området 25 – 40 mA i kollektoren af 0IC100 (0IC200), eller der justeres til 10 – 15 mV målt over begge emittermodstande 5R178 og 5R179 (5R278 og 5R279).

Bemærk: Hvis der ved fejl har været DC på udgangen, skal 5R138/238 udskiftes.

ADJUSTMENT OF NO-SIGNAL-CURRENT

Adjust no-signal-current with receiver cold and volume control turned down.
SPEAKERS MUST NOT BE CONNECTED.
With 5R177 (5R277) adjust within the area 25 – 40 mA in collector of 0IC100 (0IC200), or adjust to 10 – 15 mV measured across both emitter resistors 5R178 and 5R179 (5R278 and 5R279).

Note: If, in case of failure in the apparatus, there has been DC on the output, 5C138/238 must be replaced.

JUSTIERUNG VON LEERLAUFSTROM

Der Leerlaufstrom wird eingestellt, während der Empfänger noch kalt ist, sowie bei herabgedrehter Lautstärkeregelung.
LAUTSPRECHER DÜRFEN NICHT ANGESCHLOSSEN SEIN.
Mit 5R177 (5R277) wird innerhalb 25 – 40 mA im Kollektor von 0IC100 (0IC200), justiert, oder auf 10 – 15 mV über beiden Emitterwiderständen 5R178 und 5R179 (5R278 und 5R279) eingeregelt.

Bemerken: Wenn es bei Fehler im Gerät Gleichstrom auf dem Ausgang gegeben hat, muß 5C138/238 ausgewechselt werden.